



SEQUENCE LISTING

<10> Dahlberg, James E.  
Allawi, Hatim T.  
Lyamichev, Victor  
Neri, Bruce P.  
Olson-Munoz, Marilyn  
Chehak, LuAnne  
Olson, Sarah M.

<120> Detection of Small Nucleic Acids

<130> FORS-08497

<140> 10/740,256

<141> 2003-12-18

<160> 125

<170> PatentIn version 3.3

<210> 1  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (1)..(14)  
<223> 2'-O-methyl

<400> 1  
ggcacuuuug ugccaactat acaaccg

<210> 2  
<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (23)..(36)  
<223> 2'-O-methyl

<400> 2  
ccgtcgctgc gttactacct cacgacguuu ucgucg

27

36

```

<210> 3
<211> 30
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(30)
<223> 2'-O-methyl

<400> 3
cgacgaaaac gucgugaggu aguaacgcag . 30

<210> 4
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(20)

<400> 4
ugagguagua gguuguauag uu 22

<210> 5
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(14)
<223> 2'-O-methyl

<400> 5
ggcacuuuug ugcuaactat acaact 26

```

<210> 6		
<211> 37		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<220>		
<221> modified_base		
<222> (24)..(37)		
<223> 2'-O-methyl		
<400> 6		
ccgtcgctgc gtctactacc tcacgacguu uucgucg		37
<210> 7		
<211> 31		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<220>		
<221> modified_base		
<222> (1)..(31)		
<223> 2'-O-methyl		
<400> 7		
cgacgaaaac gucgugaggu aguagacgca g		31
<210> 8		
<211> 25		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<220>		
<221> modified_base		
<222> (1)..(14)		
<223> 2'-O-methyl		
<400> 8		
ggcacuuuug ugccaactat acaat		25

```

<210> 9
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (25)..(38)
<223> 2'-O-methyl

<400> 9
aacgaggcgc accctactac ctcacgacgu uuucgucg 38

<210> 10
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(32)
<223> 2'-O-methyl

<400> 10
cgacgaaaac gucgugaggu aguagggugc gc 32

<210> 11
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(16)
<223> 2'-O-methyl

<400> 11
ggcagcuuuu gcugccctcc atacttctc 29

```

```

<210> 12
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (23)..(38)
<223> 2'-O-methyl

<400> 12
aacgaggcgc acttacattc cacgagccuu uuggcucg 38

<210> 13
<211> 32
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(32)
<223> 2'-O-methyl

<400> 13
cgagccaaaa ggcucgugga auguaagugc gc 32

<210> 14
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(22)
<223> 2'-O-methyl

<400> 14
uggaauguaa agaaguaagg ag 22

```

```

<210> 15
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(16)
<223> 2'-O-methyl

<400> 15
ggcagcuuuu gcugccctcc atacttcc                                28

<210> 16
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (24)..(39)
<223> 2'-O-methyl

<400> 16
aacgaggcgc actttacatt ccacgagccu uuuggcucg                                39

<210> 17
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(33)
<223> 2'-O-methyl

<400> 17
cgagccaaaa ggcucgugga auguaaagug cgc                                33

```

<210> 18  
<211> 27  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (1)..(16)  
<223> 2'-O-methyl

<400> 18  
ggcagcuuuu gcugccctcc atacttt

27

<210> 19  
<211> 40  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (25)..(40)  
<223> 2'-O-methyl

<400> 19  
aacgaggcgac acctttacat tccacgagcc uuuuggcucg

40

<210> 20  
<211> 34  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (1)..(34)

<400> 20  
cgagccaaaa ggcucgugga auguaaaggu gcgc

34

```

<210> 21
<211> 13
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(13)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (3)..(3)
<223> The residue at this position is linked to a quencher.

<400> 21
cactgcttcg tgg                                13

<210> 22
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (25)..(27)
<223> 2'-O-methyl

<400> 22
ccaggaagca agtgacgcag cgacggu                                27

<210> 23
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(16)
<223> 2'-O-methyl

<400> 23
ggcacuuuug ugccaaactat acaat                                25

```

```

<210> 24
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(22)
<223> 2'-O-methyl

<400> 24
uugguauguu ggaugauugga gu 22

<210> 25
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(21)
<223> 2'-O-methyl

<400> 25
ugguacguug gaugauuggag u 21

<210> 26
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(22)
<223> 2'-O-methyl

<400> 26
uugauauguu agaugauugga gu 22

```

<210> 27		
<211> 30		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<220>		
<221> modified_base		
<222> (1)..(16)		
<223> 2'-O-methyl		
<400> 27		
ccgagcgaaa gcucgggtca cataggaatc		30
<210> 28		
<211> 39		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<220>		
<221> modified_base		
<222> (24)..(39)		
<223> 2'-O-methyl		
<400> 28		
aacgaggcgc acaaaaagcc atacgagccg aaaggcucg		39
<210> 29		
<211> 33		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<220>		
<221> modified_base		
<222> (1)..(33)		
<223> 2'-O-methyl		
<400> 29		
cgagccuuuc ggcucguau gcuuuuugug cgc		33

```

<210> 30
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(16)
<223> 2'-O-methyl

<400> 30
ccgagcgaaa gcucgggtca cataggaac 29

<210> 31
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (25)..(40)
<223> 2'-O-methyl

<400> 31
aacaggcgca actaaaaagc catacgagcc gaaaggcucg 40

<210> 32
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(34)
<223> 2'-O-methyl

<400> 32
cgagccuuuc ggcucguau gcuuuuuuagu gcgc 34

```

```

<210> 33
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(16)
<223> 2'-O-methyl

<400> 33
ccgagcgaaa gcucgggtca cataggac                                28

<210> 34
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (26)..(41)
<223> 2'-O-methyl

<400> 34
aacaggcgac acataaaaaag ccatacgagc cgaaaggcuc g                                41

<210> 35
<211> 35
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(35)
<223> 2'-O-methyl

<400> 35
cgagccuuuc ggcucguau gcuuuuuuaug ugcg                                35

```

<210> 36  
<211> 27  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (1)..(16)  
<223> 2'-O-methyl

<400> 36  
ccgagcgaaa gcucggttca cataggc

27

<210> 37  
<211> 42  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (27)..(42)  
<223> 2'-O-methyl

<400> 37  
aacgaggcgc acaataaaaaa gccatacgag ccgaaaggcu cg

42

<210> 38  
<211> 36  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (1)..(36)  
<223> 2'-O-methyl

<400> 38  
cgagccuuc ggcucguau gcuuuuuauu gugcgc

36

```

<210> 39
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(22)
<223> 2'-O-methyl

<400> 39
uagcagcacg taaaauauugg cg 22

<210> 40
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (25)..(27)
<223> 2'-O-methyl

<400> 40
ccaggaagca agtggaggcg tgacggu 27

<210> 41
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(11)
<223> 2'-O-methyl

<400> 41
ggaaucauau uggaacatgt aaaccatc 28

```

```

<210> 42
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 42
ccgcccagat cacgtatgg aggtc                                25

<210> 43
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(18)
<223> 2'-O-methyl

<400> 43
gaccucaacu acgugaua                                18

<210> 44
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(22)
<223> 2'-O-methyl

<400> 44
ucccugagac ccuaacuugu ga                                22

```

```

<210> 45
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 45
ggccatgcta atttca 17

<210> 46
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 46
ccgcccagat cactctgtat cgttc 25

<210> 47
<211> 18
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(18)
<223> 2'-O-methyl

<400> 47
gaacgauaca gagugauc 18

<210> 48
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(14)
<223> 2'-O-methyl

```

<220>		
<221> misc_feature		
<222> (3)..(3)		
<223> The residue at this position is linked to a quencher.		
<400> 48		
ctcttctcag tgcg		14
<210> 49		
<211> 28		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<220>		
<221> modified_base		
<222> (26)..(28)		
<223> 2'-O-methyl		
<400> 49		
ccagcaagca agtggtgatc tcggcggu		28
<210> 50		
<211> 23		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<400> 50		
ccgtcgctgc gtctactacc tca		23
<210> 51		
<211> 12		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<400> 51		
aactatacaa ct		12

<210> 52	
<211> 22	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<400> 52	
ccgtcgctgc gttactacct ca	22
<210> 53	
<211> 13	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<400> 53	
aactatacaa ccg	13
<210> 54	
<211> 17	
<212> RNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<220>	
<221> modified_base	
<222> (1)..(17)	
<223> 2'-O-methyl	
<400> 54	
ugagguagua gacgcag	17
<210> 55	
<211> 39	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<220>	
<221> modified_base	
<222> (24)..(39)	
<223> 2'-O-methyl	

<400> 55		
aacgaggcgc acatgtgctg ctacgagccu uuuggcucg		39
<210> 56		
<211> 28		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<220>		
<221> modified_base		
<222> (17)..(28)		
<223> 2'-O-methyl		
<400> 56		
ggcagcuuuu gcugcccaca aaccatc		28
<210> 57		
<211> 33		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<220>		
<221> modified_base		
<222> (1)..(33)		
<223> 2'-O-methyl		
<400> 57		
cgagccaaaa ggcucguagc agcacauugug cgc		33
<210> 58		
<211> 36		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<400> 58		
aacgaggcgc acatgtgctg ctagctcgcc acgccc		36

```

<210> 59
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 59
gctcgccacg ccgcacaaac cattc 25

<210> 60
<211> 13
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(13)

<400> 60
cggcguggcg agc 13

<210> 61
<211> 30
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(30)
<223> 2'-O-methyl

<400> 61
cggcguggcg agcuagcagc acaugugcgc 30

<210> 62
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

```

<220>		
<221> modified base		
<222> (1)..(22)		
<223> 2'-O-methyl		
<400> 62		22
uagcagcaca uaaugguuug ug		
<210> 63		
<211> 39		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<400> 63		39
aacgaggcgc acaataaaaaa gccatagctc gccacgccc		
<210> 64		
<211> 24		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<400> 64		24
gctcgccacg ccgttcacat aggc		
<210> 65		
<211> 33		
<212> RNA		
<213> Artificial Sequence		
<220>		
<223> Synthetic		
<220>		
<221> modified base		
<222> (1)..(33)		
<223> 2'-O-methyl		
<400> 65		33
cggcguggcgc agcuauggcu uuuuauugug cgc		

```

<210> 66
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(17)
<223> 2'-O-methyl

<400> 66
uagcagcaca ugugcgc 17

<210> 67
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 67
aacgaggcgc acatgtgctg ctaggcgaag cc 32

<210> 68
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 68
ggcgaagccc acaaaccatt c 21

<210> 69
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (30)..(32)
<223> 2'-O-methyl

```

<400> 69	
aacgaggcgc acatgtgctg ctaggcgaag cc	32
<210> 70	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<220>	
<221> modified_base	
<222> (1)..(3)	
<223> 2'-O-methyl	
<400> 70	
ggcgaagccc acaaaccatt c	21
<210> 71	
<211> 33	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<220>	
<221> modified_base	
<222> (24)..(33)	
<223> 2'-O-methyl	
<400> 71	
aacgaggcgc acatgtgctg ctaggcuucg gcc	33
<210> 72	
<211> 22	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<220>	
<221> modified_base	
<222> (1)..(10)	
<223> 2'-O-methyl	
<400> 72	
ggcuucggcc cacaaaccat tc	22

```

<210> 73
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 73
ggcaactttg tgccaaactat acaact 26

<210> 74
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 74
ccgtcgctgc gtctactacc tcacgacgtt ttctgtcg 37

<210> 75
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(5)
<223> 2'-O-methyl

<400> 75
ggcaactttg tgccaaactat acaact 26

<210> 76
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (33)..(37)
<223> 2'-O-methyl

<400> 76
ccgtcgctgc gtctactacc tcacgacgtt ttctgucg 37

```

```

<210> 77
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(16)
<223> 2'-O-methyl

<400> 77
ggcagcuuuu gcugccgc aatattg 27

<210> 78
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (25)..(40)
<223> 2'-O-methyl

<400> 78
aacgaggcgc actacgtgct gctacgagcc uuuuggcucg 40

<210> 79
<211> 34
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(34)
<223> 2'-O-methyl

<400> 79
cgagccaaaa ggcucguagc agcacguagu gcgc 34

```

```

<210> 80
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(16)
<223> 2'-O-methyl

<400> 80
ggcagcuuuu gctgcctcac aagttaga 28

<210> 81
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (24)..(39)
<223> 2'-O-methyl

<400> 81
aacgaggcgc acggtctcag ggacgagccu uuuggcucg 39

<210> 82
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(33)
<223> 2'-O-methyl

<400> 82
cgagccaaaa ggcucguccc ugagaccgug cgc 33

```

```

<210> 83
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (24)..(38)
<223> 2'-O-methyl

<400> 83
ccgtcgctgc gtctactacc tcacgacgaa uucgucgu 38

<210> 84
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(15)
<223> 2'-O-methyl

<400> 84
uggcacuuuu gugccaacta tacaact 27

<210> 85
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (24)..(36)
<223> 2'-O-methyl

<400> 85
ccgtcgctgc gtctactacc tcacgacgaa uucguc 36

```

```

<210> 86
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(13)
<223> 2'-O-methyl

<400> 86
gcacuuuugu gccaactata caact 25

<210> 87
<211> 85
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(85)
<223> 2'-O-methyl

<400> 87
gggcuuuggg gugagguagu agguuguaua guuuggaaua uuaccaccgg ugaacuaugc 60
aauuuuucuac cuuuccugaa guccc 85

<210> 88
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(21)
<223> 2'-O-methyl

<400> 88
uaaggcacgc ggugaaugcc a 21

```

```

<210> 89
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(22)
<223> 2'-O-methyl

<400> 89
uuaaggcacg cggugaaugc ca 22

<210> 90
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (24)..(39)
<223> 2'-O-methyl

<400> 90
ccgtcgctgc gtcgcgtgcc ttacgagccu uuuggcucg 39

<210> 91
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(17)
<223> 2'-O-methyl

<400> 91
uaaggcacgc gacgcag 17

```

```

<210> 92
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(16)
<223> 2'-O-methyl

<400> 92
ggcagcuuuu gcugcctggc attcaca                                27

<210> 93
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 93
ccgcccagat cacctaattct tctctgtat                                29

<210> 94
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 94
catccttgcg caggggcccattt ga                                22

<210> 95
<211> 22
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(22)
<223> 2'-O-methyl

```

<400> 95  
auacagagaa gauuagguga uc

22

<210> 96  
<211> 24  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (1)..(24)  
<223> 2'-O-methyl  
  
<400> 96  
uauggcuuuu uauuccuaug ugaa

24

<210> 97  
<211> 22  
<212> RNA  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (1)..(22)  
<223> 2'-O-methyl

<400> 97  
uggaauguaa agaaguau gu au

22

<210> 98  
<211> 39  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Synthetic

<220>  
<221> modified\_base  
<222> (24)..(39)  
<223> 2'-O-methyl

<400> 98  
aacgaggcgc actttacatt ccacgagccu uuuggcucg

39

```

<210> 99
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(16)
<223> 2'-O-methyl

<400> 99
ggcagcuuuu gcugccatac atacttcc                                28

<210> 100
<211> 33
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(33)
<223> 2'-O-methyl

<400> 100
cgagccaaaa ggcucgugga auguaaagug cgc                                33

<210> 101
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (24)..(33)
<223> 2'-O-methyl

<400> 101
aacgaggcgc acaagatcat tgcggcuucg gcc                                33

```

```

<210> 102
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(10)
<223> 2'-O-methyl

<400> 102
ggcuucggcc aatgaagatc c 21

<210> 103
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(17)
<223> 2'-O-methyl

<400> 103
gcaaugaucu ugugcgc 17

<210> 104
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (24)..(33)
<223> 2'-O-methyl

<400> 104
aacgaggcgc accttgatct tcagggcuucg gcc 33

```

```

<210> 105
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(10)
<223> 2'-O-methyl

<400> 105
ggcuucggcc aagcaatgtat a 21

<210> 106
<211> 17
<212> RNA
<213> Artificial Sequence

<220>
<223> Synthetic

<220>
<221> modified_base
<222> (1)..(17)
<223> 2'-O-methyl

<400> 106
ugaagaucaa ggugcgc 17

<210> 107
<211> 102
<212> DNA
<213> Caenorhabditis elegans

<400> 107
gttcttccga gaacatatac taaaatttgg acaatacaga gaagatttagc atggcccttg 60
cgcaaggatg acacgcaaat tcgtgaagcg ttccaaat tt 102

<210> 108
<211> 102
<212> DNA
<213> Caenorhabditis briggsae

<400> 108
gttcttccga gaacatatac taaaatttgg acaatacaga gaagatttagc atggcccttg 60
cgcaaggatg acacgcaaat tcgtgaagcg ttccaaat tt 102

```

```

<210> 109
<211> 107
<212> DNA
<213> Homo sapiens

<400> 109
gtgctcgctt cggcagcaca tatactaaaa ttggaacgat acagagaaga ttagcatggc      60
ccctgcgcaa ggatgacacg caaattcgtg aagcgttcca tatttt                         107

<210> 110
<211> 106
<212> DNA
<213> Mus musculus

<400> 110
gtgctcgctt cggcagcaca tatactaaaa ttggaacgat acagagaaga ttagcatggc      60
ccctgcgcaa ggatgacacg caaattcgtg aagcgttcca tatttt                         106

<210> 111
<211> 107
<212> DNA
<213> Xenopus sp.

<400> 111
gtgcttgctt cggcagcaca tatactaaaa ttggaacgat acagagaaga ttagcatggc      60
ccctgcgcaa ggatgacacg caaattcgtg aagcgttcca tatttt                         107

<210> 112
<211> 107
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 112
ngtgcctgct tcggcagcac atatactaaa attggaacga tacagagaag attagcatgg      60
ccctgcgca aggatgacac gcaaattcgt gaagcgttcc atattt                         107

```

```

<210> 113
<211> 108
<212> DNA
<213> Drosophila melanogaster

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 113
ngttcttgct tcggcagaac atatactaaa attggaacga tacagagaag attagcatgg      60
ccccagcgca aggatgacac gcaaaatcgt gaagcggttcc acattttt                108

<210> 114
<211> 102
<212> DNA
<213> Arabidopsis thaliana

<400> 114
gtcccttcgg ggacatccga taaaatttggc acgatacaga gaagatttgc atggcccttg      60
cgcaaggatg acacgcataa atcgagaaat ggtccaaatt tt                            102

<210> 115
<211> 37
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 115
ccgtcgctgc gtctactacc tcacgacgtt ttcgtcg                            37

<210> 116
<211> 38
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic

<400> 116
ccgtcgctgc gtctactacc tcacgacgtt ttcgtcg                            38

```

<210> 117	
<211> 36	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<400> 117	
ccgtcgctgc gtctactacc tcacgacgtt ttgcgtc	36
<210> 118	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<400> 118	
ugaagaucaa gaucauugct t	21
<210> 119	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<400> 119	
gcaaugaucu ugaucuucat t	21
<210> 120	
<400> 120	
000	
<210> 121	
<400> 121	
000	
<210> 122	
<211> 17	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<400> 122	
gcaaugaucu ugugcgc	17

<210> 123	
<211> 17	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<400> 123	17
ugaagaucaa ggugcgc	
<210> 124	
<211> 27	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<400> 124	27
tggcactttt gtgccaacta tacaact	
<210> 125	
<211> 25	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Synthetic	
<400> 125	25
gcacttttgt gccaaactata caact	